

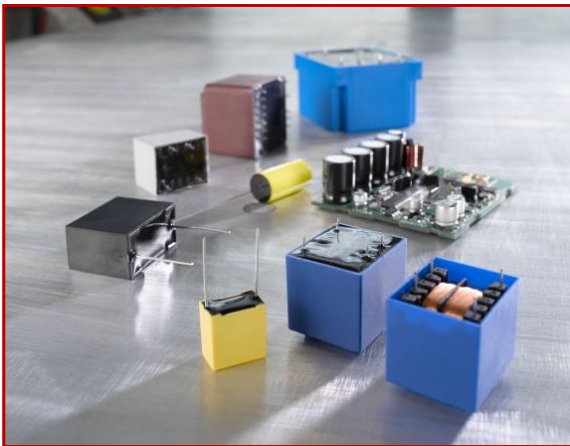
RAMPF RTI Electro Casting Resins Keep Components Cool

RAKU[®] PUR polyurethane systems with outstanding long-term thermal resistance at IPC APEX Expo 2020 – Booth 905

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Wixom, MI, USA, January 21, 2020. RAMPF Group, Inc. is presenting its portfolio of high-performance electro casting resins and mixing & dispensing systems at IPC APEX Expo 2020 in San Diego, CA, from February 4 - 6. The highlight at this year's trade fair for electronics manufacturing – RAKU[®] PUR polyurethane resins with thermal resistance of up to RTI 160°C.



Electro casting resins protect sensitive electrical and electronic components against chemical substances and environmental influences such as cold and moisture. The high-performance plastic systems also play a critical role in thermal management – by surrounding the heat source in components and dissipating it, electro casting resins ensure the long-term performance of electrical/electronic systems.

The long-term resistance to high temperatures is vital, as these accelerate many material aging processes such as embrittlement, discoloration, and degradation. The relative temperature index (RTI) is the key factor here.

RAMPF has developed an encompassing portfolio of RTI electro casting resins based on polyurethane, which combine exceptional mechanical and chemical properties with outstanding thermal conductivity. The RAKU[®] PUR resins ensure optimum long-term resistance to temperature fluctuations in the range of -40 to +160°C.

Further benefits include –

- > Low water absorption and good hydrolytic resistance
- > Low shrinkage and stress during curing due to low exothermicity
- > Good curing at room temperature
- > RoHS-compliant
- > Systems with flame retardancy to UL 94 V0 available
- > Processing on standard 2-component mixing and dispensing systems (non-abrasive fillers)

In addition to its RTI products, RAMPF Group, Inc. is presenting its encompassing portfolio of 1- and 2-component electro casting resins based on polyurethane, epoxy (RAKU[®] POX), and silicone (RAKU[®]

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SIL). These exhibit a wide range of mechanical, thermal, and chemical properties, and are used by leading manufacturers in the automotive, electrical/electronics, energy management, household appliance, and medical technology industries.

Materials, machinery, and processing technology from a single source



RAMPF Group, Inc. offers a unique proposition on the market, as it develops and produces both the electro casting resins and the static/dynamic mixing & dispensing systems for their processing. The compact dispensing cells and dispensing robots, set up with high-performance controllers from Siemens or Beckhoff, meet every requirement in terms of dynamism, interaction, and data management.

By combining its mixing and dispensing expertise with product-specific automation concepts, RAMPF maximizes customer benefit. Automation solutions include handling and robotics, component transport, recording process parameters with MES connection, construction tools and equipment, heat treatment, image processing and sensors, and contactless measuring technology.

Ron McNeal, Business Development Manager at RAMPF Group, Inc. – “With materials, machinery, and processing technology from a single source, we offer our customers holistic solutions that are tailored perfectly to their material and manufacturing requirements.”

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RAMPF Group, Inc., based in Wixom, Michigan, is the North American subsidiary of the international RAMPF Group.

The product portfolio of RAMPF Group, Inc. is comprised of:

- > mixing and dispensing systems for the reliable processing of polymers
- > two-component polymer (or synthetic) systems based on polyurethane, epoxy, and silicone
- > modeling and mold engineering materials, in particular for the automotive, marine, and aviation industries
- > machine bases, machine frames, and other structural components made from mineral casting (polymer concrete)

The international RAMPF Group stands for engineering and chemical solutions and caters to the economic and ecological needs of industry. The Group secures its presence on the international markets with approx. 900 employees and six core competencies:

- > **RAMPF Machine Systems** based in Wangen (Göppingen), Germany, develops and produces multi-axis positioning and moving systems, trunk machines, and basic machines based on high-precision machine beds and machine bed components made from alternative materials.
- > **RAMPF Production Systems** based in Zimmern o. R., Germany, develops and produces mixing and dispensing systems for bonding, sealing, foaming, and casting a wide variety of materials. The company also offers a wide range of automation skills relating to all aspects of process engineering.
- > **RAMPF Composite Solutions** based in Burlington, Ontario, Canada, is a holistic composites supplier to companies in the aerospace and medical industries. The company offers a complete suite of services including composite part design and engineering, metal-to-composite conversion engineering, and composite manufacturing to very tight tolerances.
- > **RAMPF Eco Solutions** based in Pirmasens, Germany, develops chemical solutions for the manufacture of high-quality alternative polyols from PU and PET waste materials. This expertise is also put to use in the planning and construction of customer-specific facilities for manufacturing polyols.
- > **RAMPF Polymer Solutions** based in Grafenberg, Germany, develops and produces reactive resin systems based on polyurethane, epoxy, and silicone. Its product portfolio includes liquid and thixotropic sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives.
- > **RAMPF Tooling Solutions** based in Grafenberg, Germany, develops and produces board and liquid materials for cutting-edge modeling and mold engineering. The range of skills includes made-to-measure services and products such as pastes, large-volume and full-size castings for Close Contour models, and prototyping systems.

RAMPF has subsidiaries in Germany, the U.S., Canada, Japan, and China.

All RAMPF companies are united under a holding company – **RAMPF Holding GmbH & Co. KG** – based in Grafenberg, Germany.

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